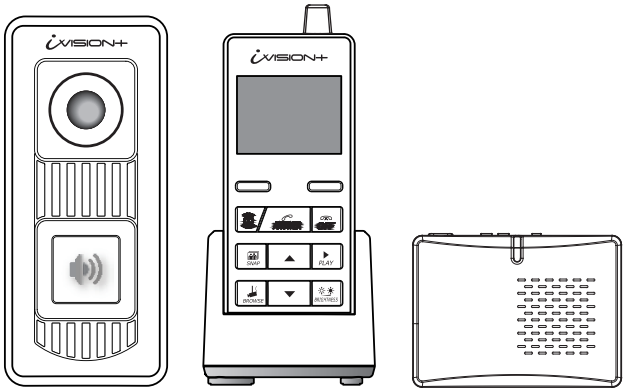
Wireless Video Intercom

User Manual



For a setup of each device, please refer to individual “Installation Instructions”

Thank you for purchasing the iVISION+ wireless video intercom.
Due to the nature of radio frequency transmission technology, the transmission range, stability of images, video and sound of the iVISION+ can not be guaranteed at all times. Performance of this product depends on the environment where the product is being used. Please carefully read all included documents and test for feasibility before applying any damages to the installation environment. Keep documents safe for future reference.

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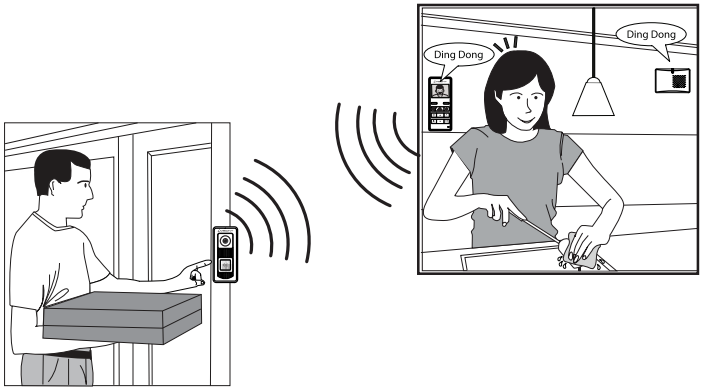
1. What you can do with iVISION+

1-1. Basic features of iVISION+

Knowing who is/was at your door

iVISION+ is a wireless video intercom system with multi unit expansion capability. When someone comes to your door and presses the button on the Door Camera Unit (Max. 2 units), the Handheld Monitor Unit (Max. 4 units) rings a chime and displays a video image from the camera. The Handheld Monitor Unit will store still images even if no one is there to answer the call.



Replace an old door bell with video

If you already have a door bell with 10-24VAC/DC power supplied, enable Door Camera Unit for a browsing feature and actively view from a Handheld Monitor Unit anytime you like. Gateway Chime Unit adds a extra chime to let you know someone is at the door.

1-2. Expanding iVISION+ with additional units

Operate third party equipments (e.g. Door lock)

Connecting a third party equipment such as a door lock or a garage door activator to a relay output of Gateway Chime Unit (IVP-GU) can enable "OPEN DOOR" function on a Handheld Monitor Unit.

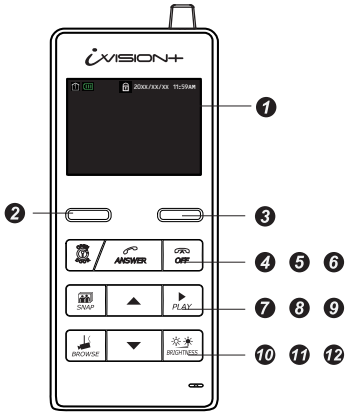
Up to two units* of IVP-GU can be hosted in a iVISION+ system.

* One IVP-GU can only be associated with one of two Door Camera Unit at all times.

2. Overview of iVISION+ devices

2-1. Handheld Monitor Unit (IVP-HU(G))

Please make sure that all Handheld Monitor Units are on cradles and being charged.
A battery mark appears while they are charging. Clearity of intercom sound may be dependent on radio transmission condition.

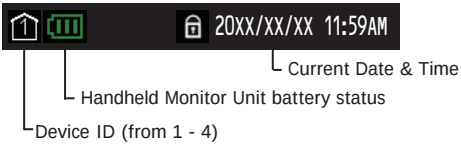


❶ Monitor Screen / Status Indicator
Monitor Screen shows video image from Door Camera Unit when PUSH button on the IVP-DU is pressed. Status Indicator appears for 10 sec when any button is pressed.

STANDBY MODE

IVP-HU goes into a power saving condition after 10 seconds. No Status Indicator appears. Press any button to exit this mode.

IDLE MODE



BROWSING MODE

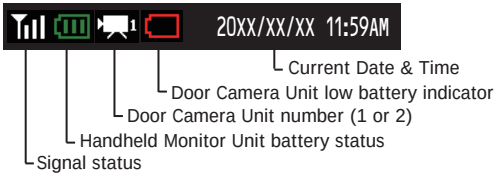
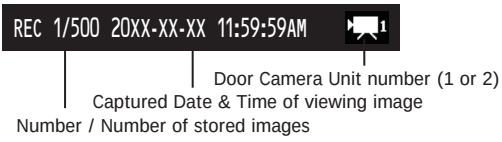

20XX/XX/XX 11:59AM
Current Date & Time
Door Camera Unit low battery indicator
Door Camera Unit number (1 or 2)
Handheld Monitor Unit battery status
Signal status

IMAGE VIEWING MODE


REC 1/500 20XX-XX-XX 11:59:59AM
Door Camera Unit number (1 or 2)
Captured Date & Time of viewing image
Number / Number of stored images

❷ LEFT function key
Used for confirmation of a command that appears on the lower left of the screen.
Press and hold for 3 sec to enter into SYSTEM SETUP menu.

❸ RIGHT function key
Used for confirmation of a command that appears on the lower right of the screen.

❹ OPEN DOOR

Enabled only when a third party electronic door lock is connected to iVISION+ system via OPTEX IVP-GU unit.

Select DOOR1 or DOOR 2 to activate output relay on designated IVP-GU unit.

❺ ANSWER ANSWER
Press to answer a call from Door Camera Unit

❻ OFF OFF
Press to terminate a talk. Lights when charging.
Press and hold for 3 sec to ON/OFF the device.

Unit 1 must remain “ON” for automatic recording function to be enabled.

❼ SNAP SNAP
Press to capture an image while answering a call or when browsing a Door Camera Unit.

❽ UP ▲ ❿ DOWN ▼
IDLE MODE: Select a volume of a ring tone
< >
While Answer or Browse: Select a volume
< >

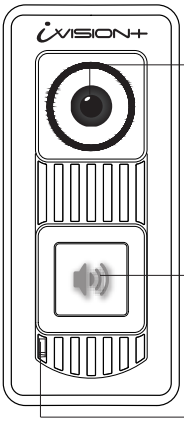
❾ PLAY PLAY
IDLE MODE: Press to enter IMAGE VIEWING MODE
Press and hold for 3 sec to delete all stored images.

❿ BROWSE BROWSE
Enabled only when Door Camera Unit is powered from an external power source.
IDLE MODE: Press to enter BROWSING MODE
Select Door 1 or Door 2 to view. Listen in or additionally press ANSWER button to speak out.

⓬ BRIGHTNESS BRIGHTNESS
Press BRIGHTNESS to set brightness
< >

2-2. Door Camera Unit (IVP-DU(G))

The Door Camera Unit is a device that makes a call to the Handheld Monitor Units (IVP-HU) when the push button is pressed by a visitor. Each iVISION+ system can carry up to 2 units of Door Camera Units and each is identified by or on Handheld Monitor Units.



Camera Module with IR LEDs
Auto Day and Night(IR) Vision enables color images in daytime and black & white images when dark.

PUSH button
The button glows with fluorescence after dark. If the unit powered by an external power, the button stays illuminated.

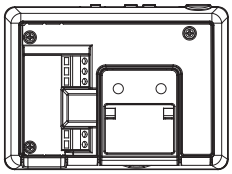
MICROPHONE

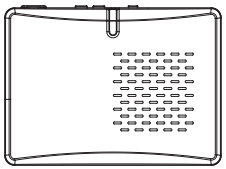
Please replace the batteries when Handheld Monitor Units show a low battery status indicator on upper middle of the screen. The sign indicates that Door Camera Unit has low power supply from current 3 AA batteries.

Caution
Do not mix an old and a new battery in this unit. Do not use Lithium batteries. Leakage or explosion can occur and may lead to severe damage and injuries.

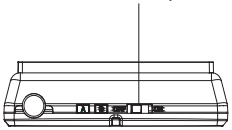
2-3. Gateway Chime Unit (IVP-GU(G))

The Gateway Chime Unit is an extra chime and an open relay output device for the iVISION+. IVP-GU is required when expanding the iVISION+ system with another third party equipment such as a door lock and a garage door activator.





Sound ON/OFF Switch
This switch is for turning ON/OFF a speaker module.



The Gateway Chime Unit always remain ON while power is being supplied.

3. Before Using iVISION+

3-1. Getting ready with iVISION+ system

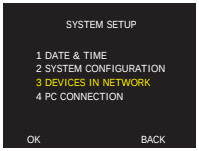
CHECK 1: Handheld Monitor Unit needs to be charged before usage

Before using iVISION+ system, the system must be installed accordingly to individual Installation Instruction. Once the installation is done, please make sure that each Handheld Monitor Unit is fully charged on a cradle. The OFF button lights up while charging until fully charged.

IDLE MODE

This indicator shows battery status on the Handheld Monitor Unit.

CHECK 2: Confirm devices registered in the system

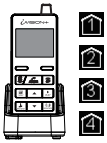


To check number of iVISION+ devices in your system, press and hold LEFT function key for 3 sec to bring up a SYSTEM SETUP menu. Select “3 DEVICES IN NETWORK” by DOWN ▼ button and confirm OK.

REFERENCE

Installation Instruction of Handheld Monitor Unit
[7-1 Confirming number of iVISION+ devices in a HOME ID]

CHECK 3: Identify the Main Handheld Unit



Identify the Main Handheld Unit by an indicator 1 on a screen.
The main handheld unit is the unit that captures and stores images while “Auto Recording Function”is activated.
The main unit must stay turned ON for the “Auto Recording Function”

IDLE MODE

This indicator No. 1 is shown on the main unit. 2,3 & 4 are sub units.

CHECK 4: Select a chime volume from the Handheld Monitor Unit

While in IDLE MODE, Use UP ▲ and DOWN ▼ keys to select a chime volume for each Handheld Monitor Unit in the iVISION+ system.

MUTE < < < < MAX

3-2. How to ON/OFF the system

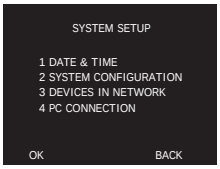
Pressing down the “OFF” button for 3 seconds, will turn ON/OFF the Handheld Monitor Unit.

Caution

At least one paired Handheld Monitor Unit needs to stay turned “ON” to respond to a call from the external Door Camera Unit. When the main Handheld Monitor Unit 1 is turned off, Auto Recording feature does not work.

3-3. Date and Time Setting

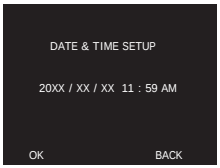
Please enter SYSTEM SETUP menu by pressing down on LEFT function key for more than 3 seconds. (Changes in SETUP can only be made on HU1)



❶ Select “1 DATE & TIME” by using UP ▲ and DOWN ▼ keys and press LEFT function key to confirm “OK”

❷ Within a DATE & TIME SETUP MODE:

Use UP ▲ and DOWN ▼ keys to increase / decrease a value
Press PLAY $_{PLAY}$ to move to the next field.



❸ Complete the setup with OK.

- While another HU is in ANSWER MODE, the Date & Time Setting will not be reflected on the unit.
- When addtional IVP-HU are added in a system, please repeat process above to reflect the Date & Time Setting to new IVP-HU units.

3-4. Changing Volumes

IDLE MODE

Pressing Up ▲ and DOWN ▼ keys while on idle changes volume of the chime that ring out from the Handheld Monitor Units.

ANSWERING/BROWSING MODE

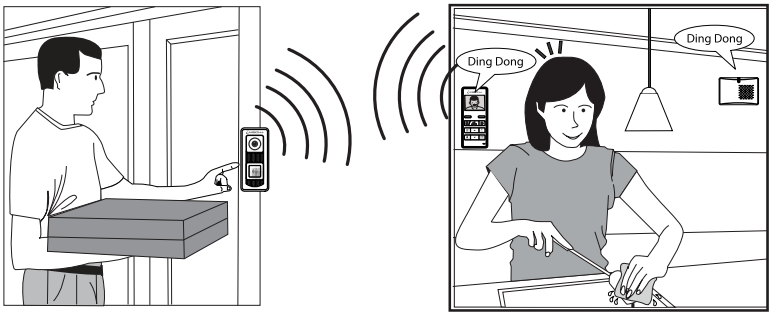
Pressing Up ▲ and DOWN ▼ keys while answering a call or browsing changes volume of the sound out from the Handheld Monitor Units.

3-5. Changing Brightness on Handheld Monitor Unit

Click on Brightness to shift brightness of the screen.
Brightness changes in 5 steps and repeats.

4. How to Use Basic Features

4-1. Answering to a Door Camera Unit



"ANSWER" to talk

"OFF" to end

(1) When a visitor presses the PUSH button on a Door Camera Unit, all other iVISION+ devices in the system make a chime sound. The Handheld Monitor Units will automatically display a video image from the Door Camera Unit.

(2) Press "ANSWER" button to talk to the visitor.
The call will automatically be terminated after 60 seconds* unless ANSWER button is pressed again during the conversation to extend for another 60 seconds.

*Conversations are limited to a 60 second duration to conserve battery life or for when it is forgotten to manually end the conversation by pressing the "OFF" button.

(3) While in a conversation with a Door Camera Unit, if additional Gateway Chime Unit has been installed, you can press the "OPEN DOOR" to open a electric door lock or activate an additional third party equipment.

(4) Press the "OFF" button to end the conversation.

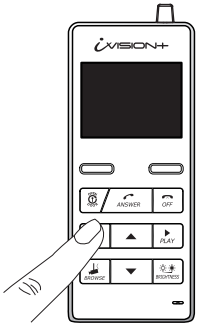
Handheld Monitor Units allow 60 seconds before answering a call manually and engage in a conversation with a visitor. Unless disabled (ref: SEC. 5), number of images captured by the Door Camera Unit will be stored into a memory of the main Handheld Unit untill the call is answered.

In order to see if there is a missed call please press any button to exit STANDBY MODE. PLAY button on the main Handheld Unit will blink when there is a new captured image from a time no one answered a call.
Please refer to Sec. 6 "Handling Stored Images" for more options.

Answering to an additional call from another Door Camera Unit

If another Door Camera Unit calls during ANSWER/BROWSING MODE, pressing RIGHT function key within 60 seconds, switches monitor to the incoming call.
Note: Pressing ANSWER button, instead, extends current session without switching to the incoming call.

4-2. Using SNAP function to capture an image



the Handheld Monitor Unit can capture an image from a Door Camera Unit and stores up to 500 images in an internal memory.

During ANSWER or BROWSING MODE, press SNAP to record a still image from the Door Camera Unit. An REC Indicator ● in red will appear on the top of the screen for 1 second.

4-3. Operating OPEN DOOR function

CAUTION

OPEN DOOR function is only available if iVISION+ system is expanded with a Gateway Chime Unit(IVP-GU) and properly connected to a third party equipment.

IDLE MODE

Pressing OPEN DOOR button will bring an OPEN DOOR menu on the screen. Select DOOR1 or DOOR2 to activate a designated output relay on IVP-GU. Two short beeps will confirm the signal transmission. Return to IDLE MODE by pressing OFF.

During ANSWER/BROWSING MODE

Pressing OPEN DOOR button while answering a call or browsing directly activates the IVP-GU output relay designated to a Door Camera Unit. This is indicated on the top of the screen.

ANSWER/BROWSING MODE

4-4. Ending ANSWER / BROWSING MODE (Returning to IDLE MODE)

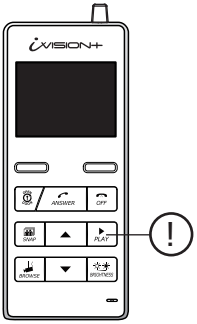
Press OFF button to terminate ANSWER or BROWSING MODE and return to IDLE MODE.

CAUTION

Pressing OFF button for more than 3 seconds will turn off the power of the Handheld Monitor Unit. When the power is turned off the unit will not respond to a call from a Door Camera Unit.

5. Auto Recording Images

5-1. How “Auto Recording” works



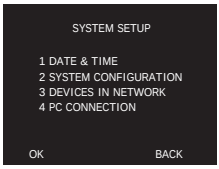
Every time Door Camera Unit makes a call, untill ANSWER button is pressed, the main Handheld Unit capture images from the screen and stores into its internal memory.

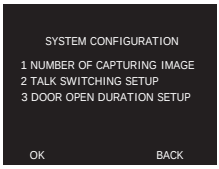
When the Handheld Monitor Unit has newly captured images from Auto Recording, PLAY button blinks when you exit STANDBY MODE.

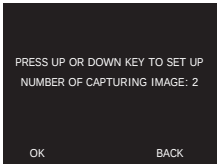
If you wish to disable the Auto Recording function, please follow step 5-2 for setting a number of images to be captured to “0” zero.

The internal memory of the Main Handheld Monitor Unit can store up to 500 images. If additional images are captured and being stored, oldest images are deleted and overwritten automatically.

5-2. Changing number of images to be captured in “Auto Recording”







NOTE

By default, the number of images to be captured during Auto Recording is “2”.

(1) Please enter SYSTEM SETUP menu by pressing down on LEFT function key for more than 3 seconds.

(2) Select “2 SYSTEM CONFIGURATION” by using UP ▲ and DOWN ▼ keys and press LEFT function key to confirm “OK”

(3) Select “1 NUMBER OF CAPTURING IMAGE” and press LEFT function key to confirm “OK”

(4) Using UP ▲ and DOWN ▼ keys, select the number of images to be captured during “Auto Recording” from “0” zero to “10” ten.

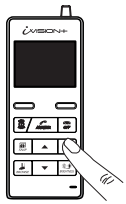
(5) Please press LEFT Function key to “OK” your selection. The screen will consequently return to IDLE MODE.

5-3. Timings for capturing images

First image will be captured within a second after the PUSH button on the Door Camera Unit is pressed. The second image will be captured 4 seconds after the first image. The third and following images will be captured at intervals of 1 second.

6. Handling Stored Images

6-1. Viewing Images



(1) While in IDLE MODE, press PLAY ▶ PLAY to enter IMAGE VIEWING MODE

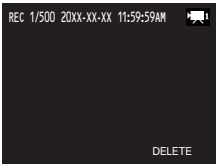
(2) Use UP ▲ and DOWN ▼ keys to browse through stored images.

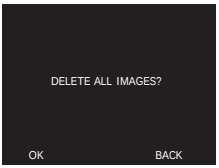
(3) End IMAGE VIEWING MODE by pressing OFF ⏻ OFF button.

6-2. Deleting Stored Images

CAUTION

Please note that once images are deleted, they can not be restored.





Deleting selected images in a memory

(1) While in IMAGE VIEWING MODE, select image to delete by UP ▲ and DOWN ▼ keys.

(2) Press RIGHT function key to delete the image.

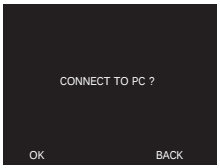
Deleting all images stored in a memory

(1) While in IDLE MODE, press and hold PLAY ▶ PLAY button for more than 3 seconds.

(2) If OK, press LEFT function key to delete all images.

Recommended monthly deletion of all images to reduce a risk of memory failure.

6-3. Viewing Images from Your PC



(1) Enter SYSTEM SETUP menu by pressing LEFT function key for more than 3 seconds.

(2) Select “4 PC CONNECTION” by using UP ▲ and DOWN ▼ keys. Confirm “OK” by LEFT function key.

(3) Make sure that the Handheld Monitor Unit is connected to a PC by micro-USB cable*1. and proceed with “OK” by pressing LEFT function key. PC CONNECTION MODE will start.

(4) Your PC will recognize the Handheld Monitor Unit as an external storage device. Access the device to retrieve or manage stored image files*2.

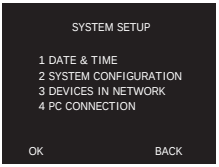
(5) Eject the storage device from the PC and confirm “BACK” by RIGHT function key to return to IDLE MODE.

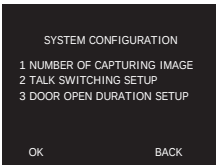
*1 micro-USB cable must be obtained separately from available electronics shops

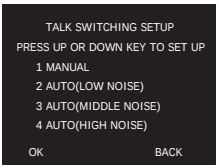
*2 PC may require addition procedures to recognize the device. Supports Windows® 7 or later versions.

7. Other Settings

7-1. Talk Switching Mode Setting







Press LEFT function key
to speak to a Door Camera Unit
(Effective in all settings)

By default, Talk Switching Setup between a Door Camera Unit and a Handheld Monitor Unit is set to AUTO(MIDDLE NOISE). This means that a conversation switches automatically from a listener to a speaker on either side of the intercom when an unit is picking up a voice or any relevant sound.
If you wish to change the setting, please take following procedures.

(1) Enter SYSTEM SETUP menu by pressing LEFT function key for more than 3 seconds.

(2) Select “2 SYSTEM CONFIGURATION” by using UP ▲ and DOWN ▼ keys and press LEFT function key to confirm “OK”

(3) Select “2 TALK SWITCHING SETUP” by using UP ▲ and DOWN ▼ keys and press LEFT function key to confirm “OK”

(4) In TALK SWITCHING SETUP screen, select a mode from 1 to 4 by using UP ▲ and DOWN ▼ keys and press LEFT function key to confirm “OK”.

1 MANUAL

This is a “Push to talk” mode. Door Camera Unit only receives a voice or a sound from a Handheld Monitor Unit when LEFT function key is being pressed. Use this mode to avoid unwanted sound from the house to be heard from a Door Camera Unit.

2 AUTO(LOW NOISE)

Listener and speaker side switches automatically in this mode. Use this in a very quiet and low noise environment to enhance conversational responses.

3 AUTO(MIDDLE NOISE)

Listener and speaker side switches automatically in this mode.
This is a factory default setting.

4 AUTO(HIGH NOISE)

Listener and speaker side switches automatically in this mode. Use this with a noisy environment to enhance conversational responses.

7-2. Sensor Alert Enabling/Disabling Setting

Note: This function is available only for U.S./Canada products.

While Door Camera Unit(IVP-DU) is powered by an external power source and OPTEX Wireless2000 TD-20U is connected to iVISION+ system through Gateway Chime Unit, calls can be triggered by motion detectors, capturing images from the IVP-DU.

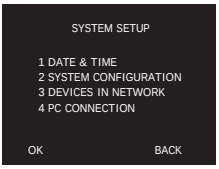
In order to change this setting, enter ENABLE/DISABLE SENSOR ALERT menu by pressing RIGHT function key for more than 3 seconds. Confirm by LEFT fucntion key to switch setting or cancel by RIGHT function key.

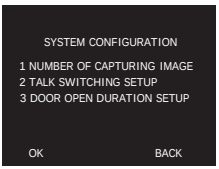
Sensor Alert Enabled: TD-20U triggers a call to iVISION+ system.

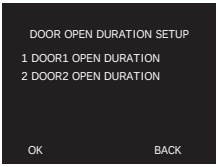
Sensor Alert Disabled: TD-20U does not trigger a call to iVISION+ system.

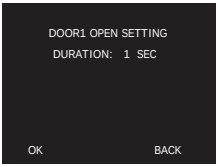
7-3. Door Open Duration Setting*

* This setting is only active while iVISION+ system is properly connected to a third party doorlock or a garage door activator through a Gateway Chime Unit (IVP-GU).









NOTE

By default, DOOR OPEN DURATION Setting is 1 second*.

* The actual duration that the third equipment operate may differ from this setting.

This setting adjust a operation time of a NO/NC terminal output on IVP-GU to 1 sec, 5 sec, 30 sec or 60 sec.

(1) Enter SYSTEM SETUP menu by pressing LEFT function key for more than 3 seconds.

(2) Select “2 SYSTEM CONFIGURATION” by using UP ▲ and DOWN ▼ keys and press LEFT function key to confirm “OK”

(3) Select “3 DOOR OPEN DURATION SETUP” by using UP ▲ and DOWN ▼ keys and press LEFT function key to confirm “OK”

(4) In DOOR1(2) OPEN SETTING screen, select a duration time by using UP ▲ and DOWN ▼ keys and press LEFT function key to confirm “OK”.

DURATION: 1 SEC ← 5 30 60 ←

8. Frequently Asked Questions

Q: Is the iVISION+ compatible to the old iVISION?
A: No, the iVISION+ is not compatible to iVISION system.

Q: If I connect existing door bell wires to the Door Camera Unit, will the bell still ring?
A: No. The input terminals on the Door Camera Unit are strictly for powering purposes. Please use Gateway Chime Unit to replace the existing doorbell.

Q: Can I download the images from the Handheld Monitor Unit to my PC?
A: Yes. micro-USB cable is required to download images. (Refer to Sec. 6-3)

Q. What is the RF transmission range for iVISION+?
A: Signal reaches a maximum of three hundred ft (100 m) (clear line of site). RF signal condition may vary depending on surrounding environment and materials.

Q: How many Handheld Monitor Units can I have communicating to a Door Camera Unit?
A: One at a time. If another Door Camera Unit makes a call while answering, the call can be only answered from the current Handheld Monitor Unit.

Q: How can I adjust the volume on the Door Camera Unit?
A: There is no volume adjustment for the Door Camera Unit.

9. Trouble Shooting

Symptoms	Probable causes & solutions
The video image is distorted. The voice is cut off while answering/browsing a Door Camera Unit.	Is a microwave oven or a wireless LAN device in operation near the Handheld Monitor Unit? • Re-locate the Handheld Monitor Unit away from such equipment.
A howling noise distorts the sound.	If the Handheld Monitor Unit is too close to the Door Camera Unit, a howling sound can occur. • Please move the IVP-HU away from IVP-DU untill the howling sound disappears.
The ring tone cannot be heard.	• Check battery status on Handheld Monitor Unit and charge if necessary. Change volume setting on the Handheld Monitor Unit. (Refer to Sec. 3-1 “Check 4”)
The charging does not start when the Handheld Monitor Unit is placed in the charging cradle.	Is the AC adaptor disconnected from the socket or the charging cradle? • Please check all power connections. • Clean the charging terminals with a dry cloth.
The display on a Handheld Monitor Unit is black and does not respond to any key.	Is the unit in standby? • Press any button to energize the display. • Make sure the unit is powered on. (Refer to Sec. 3-2) • If the battery has ran out, charge the Handheld Monitor Unit.
The video image flickers.	Fluorescent lights nearby to the Camera Door Unit may cause the image to flicker.
The video image appears blurred by lights.	It may be difficult to see the image if the camera lens receives strong light such as sunlight. • Avoid direct sunlight by re-positioning or placing a shade. • Adjust the brightness setting (Refer to Sec. 3-5)
During PLAY function, viewing stored images is slow.	Please clear out all stored images by refering to Sec. 6-2 “Deleting all images stored in a memory”. This will format a memory and improve a viewing speed. Do not forget to make a PC backup of images if necessary.
The Handheld Monitor Unit has a very short battery life.	If the units had not been powered for a long time, it may require to repeat charge-discharge process for several times to rejuvenate a battery life. If the battery life does not improve, please contact our technical assistance.

MEMO

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URL: http://www.optexamerica.com/

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URL: http://www.optexchina.com/

5923320
REV 1.01

Important notice before installation

Thank you for purchasing the OPTEX iVISION+ wireless intercom system. As with all wireless systems, the performance of the communication between the individual wireless units can be affected by environmental conditions.

What can affect the wireless communication?
The quality of the iVISION+'s radio coverage can be affected by any obstruction between the wireless transmitter and receiver. The obstruction can be in the form of solid or partition walls, concrete or other types of floor, armoured doors or elevator shaft etc. The level of the radio signal attenuation depends on the type of material.

Please note that not only visible obstructions can affect the wireless quality; interference can also come from electric or electromagnetic devices such as wireless routers, microwave ovens, TV's and similar devices. OPTEX iVISION+ operates on 2.4GHz frequency which is a popular wireless frequency. The risk of interference can be minimised by changing the WIFI channel on the wireless router for example (please refer to your router's user manual for information on this).

Testing for optimised operation
We recommend any user / installer to test the wireless coverage on site system before deciding on the final installation position.

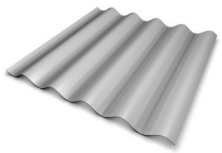
Depending on the building material used on site or external wireless interference, the range and quality of the wireless transmission can vary. We have listed some examples to explain how some materials affect the wireless signal.

Plasterboard
10-30% signal reduction

Wood
10-30% signal reduction

Concrete and building blocks
50-70% signal reduction

Brick
30-50% signal reduction



Metal and metal cladding
70-90% signal reduction

Please Note: before mounting any piece of the iVISION+, please test the unit for satisfactory performance.

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OPTEX

iVISION+
Wireless Video Intercom

IVP-HU(G)
(Handheld Monitor Unit)
Installation Instructions

CE

ATTENTION:
Thank you for purchasing the iVISION+ wireless video intercom.
Before installation and usage, please read this instruction manual thoroughly and keep this safe for future reference.

IVP-HU(G) features

2.4 inch TFT LCD Monitor
Wall-mountable Cradle
Max 4 Units in a System
micro-USB port to PC connection
Manual/Auto Talk Switching

1. IMPORTANT NOTICE

Operations under harsh environments such as out of warranted temperature, rapid temperature change, high humidity, constant moisturization may cause the unit to malfunction.

Electronic device such as TVs, Radios, PCs, Microwave ovens or any other device with an electric motor may cause the unit to malfunction.

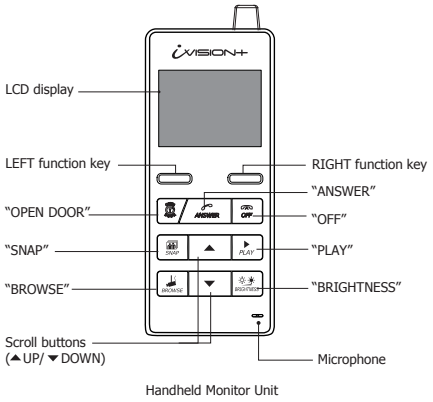
Impact or shocks can cause severe damage to the unit. Please handle the unit with care and operate without exerting strong forces.

Transmission range of communication between units may decrease under the following conditions.
- Any unit is installed on a metal surface.
- Presence of reinforced concrete, steel doors or other metal construction materials between units.
- Places near strong radio sources such as broadcast stations or substations.

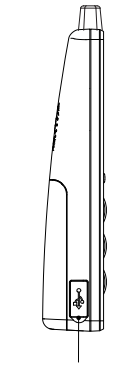
Avoid using the Handheld Monitor Unit in the following areas
- Close to a fire, thermal appliance or other source of extreme heat/cold.
- Within 10ft (3m) of a television, microwave oven, personal computer, wireless LAN equipment, wireless audio/visual equipment - the radio frequency waves emitted by these devices can affect operation.
- In direct sunlight.
- Where extreme fluctuations in temperature can occur - if moving the unit from a warm to cold environment, or vice versa, please allow 30 minutes before use.

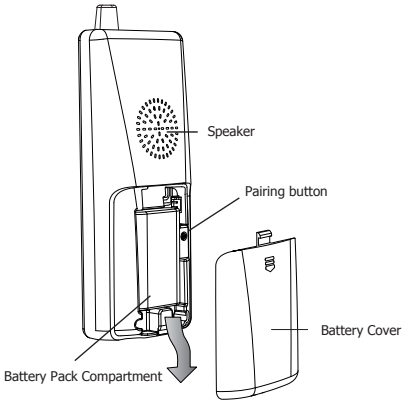
Privacy & portrait/image rights
- Please respect the privacy and image rights of others when using this equipment. By using this equipment the user assumes total responsibility in upholding these rights.
- Images stored must not be used for any purpose other than that for which the equipment is designed.
- Images should be deleted once no longer required.

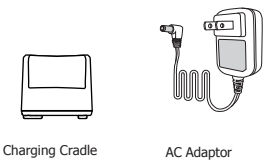
2. PARTS IDENTIFICATION

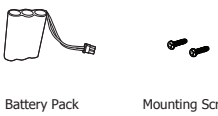


Handheld Monitor Unit


USB connection port







3. CHOOSING LOCATION

The performance of the iVISION+ system is dependent on the radio frequency environment and distances between devices. Following materials may decrease the maximum transmission distance and may cause the Handheld Monitor Unit inability to respond to incoming signals.

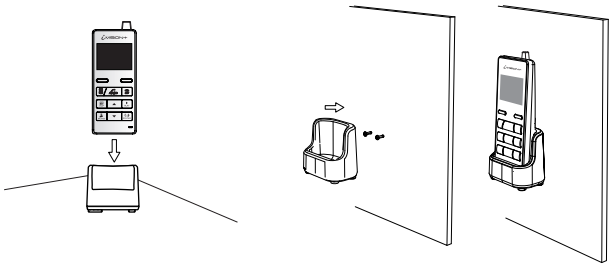
- Metal barricades such as ,metal doors and shutters.
- Walls with aluminium foil insulation.
- Concrete or galvanized metal walls.

The effective communication range is around 300ft (100m) in an open air condition (line of sight). This range will be significantly reduced by the number and thickness of walls through which the signal is required to pass. Please keep to a minimum number of walls wherever possible.

Handheld Monitor Units use 2.4GHz radio frequency. Any electrical appliance may become a potential cause for malfunction. Please avoid using the Handheld Monitor Unit near microwave oven or any electrical devices with similar radio frequency.

4. INSTALLATION

Handheld Monitor Unit must be set on Charging Cradle to retain its power while iVISION+ system is not in operation. The Charging Cradle can either be free-standing on a horizontal surface or be mounted on a wall as described below.



5. POWERING THE UNIT

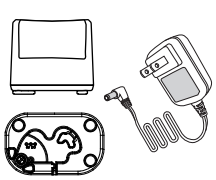
⚠ CAUTION

Please use the included battery pack and a power adaptor only.
Do not disassemble or attempt to use alternative battery packs.

Remove and keep the battery seperately if the device is not used for more than a month. It may require several charge-discharge process before a battery regains its full capacity after a long storage period.

1. Connect Battery pack to the main unit.

2. Connect AC adapter to Charging Cradle



3. Press and hold "OFF" button to power on. Set the unit onto the cradle for charging.

6. PAIRING WITH OTHER iVISION+ DEVICES

NOTE: One Handheld Monitor Unit (IVP-HU) must be configured to have a HOME ID*1 prior to paring up with other iVISION+ devices. Handheld Monitor Unit bundled with Door Camera Unit already has a HOME ID set up and paired up to each other.

*1 HOME ID is an unique network identification protocol for iVISION+ system. One Handheld Monitor Unit can issue the HOME ID and all other devices on the same system must be assigned the same HOME ID.

6-1 How to create HOME ID by a Handheld Monitor Unit

⚠ WARNING

Any pre-existing HOME ID set up will be cleared out with this procedure.

(1) Press "OFF" and then press pairing button in the back of the unit once. The IVP-HU will be in a pairing mode.
(2) Press the pairing button again and hold until the unit makes a beep sound.
(3) Press "Left function key" on the front to confirm "CREATE."

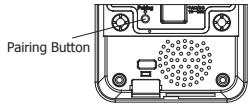
6-2 How to enroll other iVISION+ devices to the Handheld Monitor Unit

(1) Press pairing button in the back of IVP-HU. The unit will be in "PAIRING MODE".
(2) Proceed to "SCAN" by pressing "Left function key". IVP-HU starts scanning for other devices for 60 seconds.
(3) Prepare other iVISION+ device into their pairing mode. (REF: 6-3) When the device is ready, the new unit will be enrolled to the HOME ID and IVP-HU shows which device was connected.
(4) If another device needs to be enrolled, re-enter "SCAN" by "Left Function key" and repeat the process.

6-3 REFERENCE: How to enter "pairing mode" in iVISION+ devices

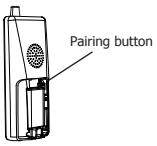
IVP-DU: Door Camera Unit

If not purchased in a bundle package, IVP-DU is in the pairing mode when powered up. IVP-DU beeps continuously when PUSH button is pressed. To purposely enter into a paring mode, press PUSH button once and hold a pairing button in a back.



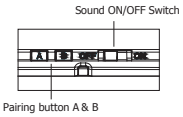
IVP-HU: Handheld Monitor Unit

If not purchased in a bundle package, IVP-HU is in the pairing mode when powered up. Choose "JOIN" by "Right function key" to enroll into an existing HOME ID. If otherwise, follow the instruction 6-1 to create a new HOME ID. After an enrollment of new HU, reset a Time & Date on HU1 to reflect the setting onto the added HU unit.



IVP-GU: Gateway Chime Unit

If not purchased in a bundle package, by the factory default, IVP-GU is in the pairing mode when powered up. IVP-GU beeps continuously and green/red LED blinks. Press down both A and B buttons while powering up the Gateway Chime Unit to enter the pairing mode.



7. OPERATION CHECK

7-1 Confirming number of iVISION+ devices in a HOME ID

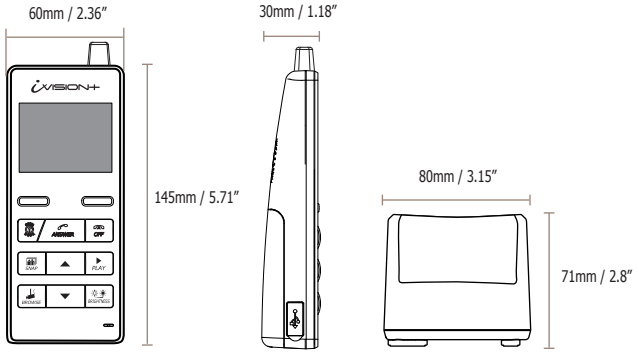
(1) In a normal operation mode, press and hold the left function key for two seconds to enter menu mode.
(2) Select menu number 3 # DEVICES IN NETWORK by up and down key.
(3) Press LEFT function key to "OK"
(4) The display will show the number of iVISION+ devices in the network. Confirm number of iVISION+ devices registered with the HOME ID.
(5) Maximum numbers of devices in an iVISION+ system are; 2 IVP-DU, 2 IVP-GU and 4 IVP-HU. Go over pairing procedure unless optimal numbers of devices are displayed.

7-2 Checking operations on Handheld Monitor Unit

(1) Make sure IVP-HU has been charged and there is a green indication on the top of display.
(2) To confirm RF reception, bring IVP-HU and IVP-DU in a line of sight.
(3) Press "Push button" on a paired Door Camera Unit. All paired IVP-HUs display an image from the IVP-DU.
(4) Press "Answer" on any of the IVP-HU. Voice from IVP-HU will be heard from the IVP-DU.
(5) Press "OFF" on the IVP-HU to terminate the communication.
(6) Move IVP-HU (and IVP-DU) to a desired location and repeat (3) to (5) to confirm reception of signals.

8. SPECIFICATION

8-1 Dimensions



8-2 Specification Table

MODEL NAME: OPTEX iVISION+ (IVP-HU) Handheld Monitor Unit

Operating Temperature	0 to 40 degC (32 to 104 degF)
Operating Humidity	< 90% RH (no condensation)
Dust/Water Protection	N/A (Indoor Use Only)
Radiowave Frequency	2.4 GHz
Power	Power Adaptor 5.5V DC

Use designated battery, IVP-BAT, for IVP-HU.
Please contact your regional technical support for procurement information.

9. WARRANTY

1. This product is under a warranty for a normal usage for 18 months from the date of manufacturing. The date of manufacturing can be identified from a LOT number indicated on a label placed in battery compartment of IVP-HU.

   LOT: YYWWZ (e.g. LOT 1350Z)

   YY indicates last two digits of the year manufactured (e.g. "13" = Year 2013)
   WW indicates Xth week of the year manufactured (e.g. "50" = 50th week)

2. The warranty may **not be applicable** when any of following circumstances is found.
   - Mechanical or electrical modification is made to the product and the good's appearance indicates an alterations or a significant damage.
   - The product is already been diagnosed by someone other than the manufacturer.
   - Product malfunction is resulting from an improper usage, an accident, natural disaster or any environmental event.
   - Please call our technical assistance before arranging a return.

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OPTEX

iVISION+
Wireless Video Intercom

IVP-DU(G)
(Door Camera Unit)
Installation Instructions

CE

ATTENTION:
Thank you for purchasing the iVISION+ wireless video intercom.
Before installation and usage, please read this instruction manual thoroughly and keep this safe for future reference.

IVP-DU(G) features

Adjustable Camera Angle
Battery Operation Capability (for 1 year*1)
Auto Day(Color) / Night(IR) Vision
Max 2 Units in a System
Fluorescent Push Button
AC/DC (10~24V) Adaptable
Splash Proof for Rain and Outdoor Condition*2

*1 calculation based on operations for 10sec times 3 activations per a day
*2 IPX4 Operating Temparature -20 to 50 degC (-4 F to 122 degF)

1. IMPORTANT NOTICE

Operations under harsh environments such as out of warranted temperature, rapid temperature change, high humidity, constant moisturization may cause the unit to malfunction.

Electronic device such as TVs, Radios, PCs, Microwave ovens or any other device with an electric motor may cause the unit to malfunction.

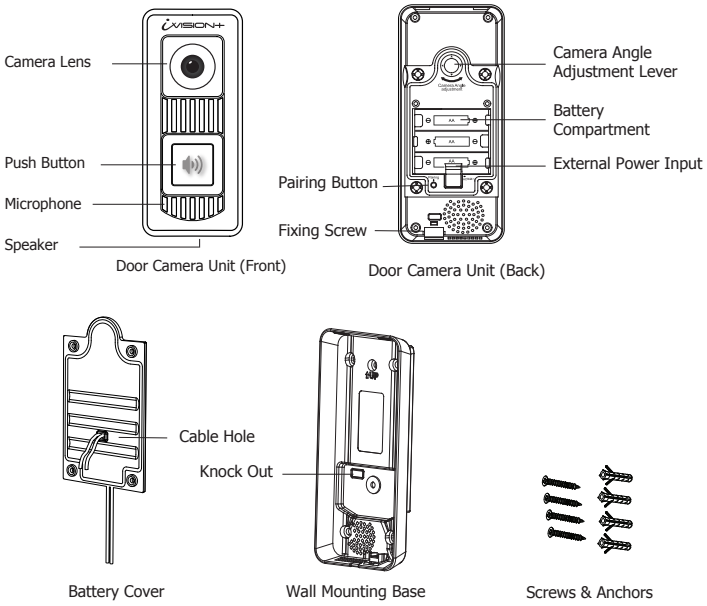
Impact or shocks can cause severe damage to the unit. Please handle the unit with care and operate without exerting strong forces.

Transmission range of communication between units may decrease under the following conditions.
- Any unit is installed on a metal surface.
- Presence of reinforced concrete, steel doors or other metal construction materials between units.
- Places near strong radio sources such as broadcast stations or substations.

Location of Installation is critical to optimize image quality captured by the unit. Images will be impaired if the ambient backlight is very strong.
Please study the installation environment according to this installation instruction.
- The video image is displayed in color during daytime or in well-lit area, but it is displayed in black and white at night or in a dark area.

Old and new batteries may not be mixed. **Do not use lithium** batteries for IVP-DU. Leakage or possible explosion can occur.
- When Door Camera Unit Low Battery Indicator blinks on HU1, please replace batteries.

2. PARTS IDENTIFICATION

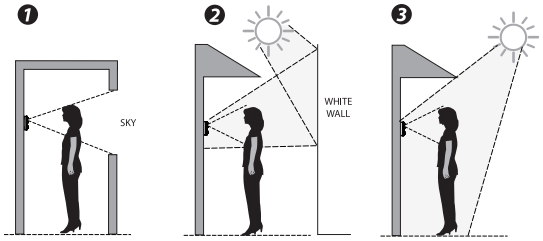


3. CHOOSING LOCATION

3-1 Places to Avoid

The performance of the system may be affected when mounting the unit in the following environments.
- Places that are constantly experiencing vibrations or shocks.
- Near a source of hydrosulfuric fumes, phosphorus fumes, ammonia, sulphur, carbon dust and any acidic or noxious materials.
- An enclosed space that may cause sounds to echo
- Where rain or water may directly hit the unit.

Please also note that the video image may be seriously impaired where the camera faces directly into the sun, and also in the following situations.

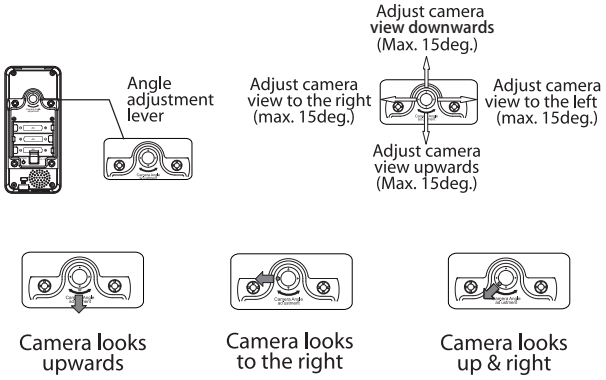


❶ Location where the background is primarily occupied by the sky, such as in the upper floor of an apartment building.
❷ Location which has an adjacent white wall that will directly reflect sunlight.
❸ Location that receives direct bright sunlight.

3-2 Position and Field of View

IVP-DU (Door Camera Unit) should be mounted at a position where visitors or potential trespassers can be captured in the camera's field of view. In a typical setting, IVP-DU is positioned at height between 3.6 -5 feet (1-1.5m) off the ground.

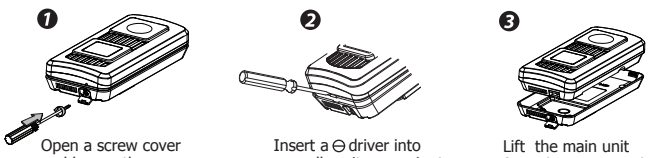
Camera Angle Adjustment Lever can shift the camera's field of view max +/- 15 degrees to any combination of vertical and horizontal directions.


Angle adjustment lever
Adjust camera view downwards (Max. 15deg.)
Adjust camera view to the right (max. 15deg.)
Adjust camera view to the left (max. 15deg.)
Adjust camera view upwards (Max. 15deg.)
Camera looks upwards
Camera looks to the right
Camera looks up & right

4. INSTALLATION

4-1 Unit Preparation

Remove the main unit from the mounting base

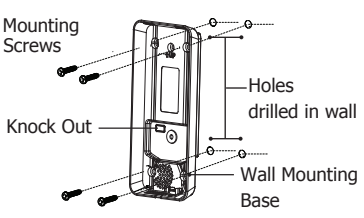


❶ Open a screw cover and loosen the screw. Pull out the screw for a quarter of an inch (6mm).
❷ Insert a ⊖ driver into a small cavity on a rim to pop up the main unit.
❸ Lift the main unit from the mounting base.

4-2 Fixing the Base

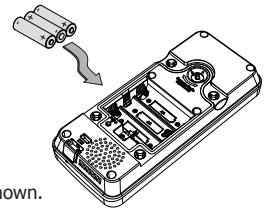
Fix the mounting base on the wall at the height and location selected.

NOTE: When using an external power source, make a knockout hole on the Mounting Base before fixing to a wall. Place the Mounting Base on a horizontal surface front side down. Point a driver in the center of the knock out and apply gentle impacts to break a hole through.



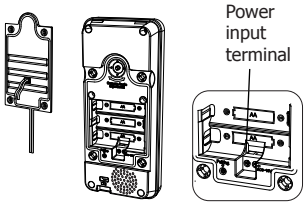
4-3 Powering the Unit

> ⚠ CAUTION
>
> **Old and new batteries** may not be mixed. **Do not use lithium** batteries for IVP-DU. Leakage or possible explosion can occur.



Insert 3 x AA alkaline batteries.
Please ensure to match the correct +/- polarity as shown.

The Camera Door Unit may also be powered from an external power source.
If available, connect the unit directly to the existing AC/DC 10-24V doorbell power supply or, alternatively, an AC/DC 10-24V third party's external power pack may be used.

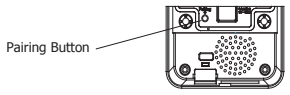


Pass the bell wire or the wire from a power pack through the mounting plate before fixing the plate to the wall. Connect the wire to the Power input terminal.

> ⚠ WARNING
>
> External power must not be used with batteries.

5. PAIRING WITH IVP-HU (Handheld Monitor Unit)

NOTE: One Handheld Monitor Unit (IVP-HU) must be configured to have a HOME ID*1 prior to paring up with other iVISION+ devices. For setting up a new HOME ID, refer to the Installation Instruction of IVP-HU.
A Handheld Monitor Unit bundled with Door Camera Unit already has a HOME ID set up and paired up to each other. Proceed to OPERATION CHECK unless additional pairing is required.



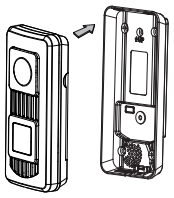
(1) Enabling Paring Mode of a Door Camera Unit (IVP-DU)
Press a PUSH button on the front then push pairing button located at the bottom of battery compartment until the unit makes a beeping sound.
The Door Camera Unit will clear its HOME ID assignment and starts looking for a New HOME ID. 5 short beeps will repeat until the unit is paired or power/batteries displacement.

(2) Assigning a HOME ID to a Door Camera Unit (IVP-DU)
When a Handheld Monitor Unit in a paring mode, choose "SCAN" by pressing Left Function Key. Door Camera Unit will automatically be assigned to a new HOME ID and beeping will stop. Repeat the same procedure for an addition unit. The first paired IVP-DU will be assigned as DU1. The second paired IVP-DU will be assigned as DU2.

NOTE: While the Door Camera Unit is in a factory default setting, the unit has not been assigned to a HOME ID*1. When powering the unit, 5 short beeps indicates its paring mode.

*1 HOME ID is an unique identification number for your iVISION+ system.

6. MOUNTING THE UNIT



(1) Fix a Wall Mounting Base to a desired location using four screws and anchors included in a package.

(2) On to the secured mounting base, hook upper rim of the main unit and then, press in the entire unit.

(3) Tighten a screw at the bottom to secure the unit.

7. OPERATION CHECK

(1) Press "Push Button" on the IVP-DU and observe IVP-HU with a visual image.

(2) Carry IVP-HU away from the IVP-DU and Press "Answer" on the IVP-HU.

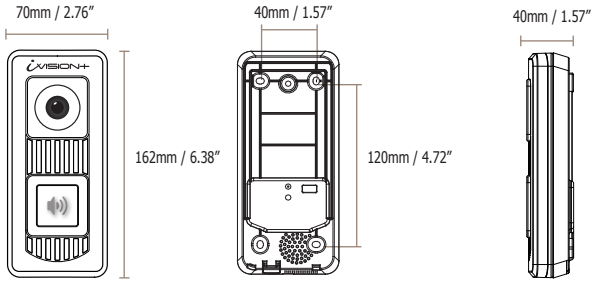
(3) Have another person speak to the IVP-DU and listen to the sound on IVP-HU.

(4) Speak back from the IVP-HU and listen from the IVP-DU.

If the IVP-DU is powered from the external power source, the Push Button glows on the IVP-DU.
NOTE: Due to characteristics of 2.4 GHz radio waves, different locations in a home may vary the performance of transmissions and receptions. Adjust positions of IVP-HU to places where performance is desirable. If a distance between IVP-DU and IVP-HU is close, two units may cause an howling effect when communication is in place.

8. SPECIFICATION

8-1 Dimensions



8-2 Specification Table

MODEL NAME: OPTEX iVISION+ (IVP-DU) Door Camera Unit

Operating Temperature	- 20 to 50 degC (-4 to 120 degF)
Operating Humidity	< 90% RH (no condensation)
Dust/Water Protection	IPX4 Splash Proof (Water Drain Structure)
Radiowave Frequency	2.4 GHz
Camera/Lighting Unit	Color vision / IR lighting LED
Power	Battery (3 AA Alkaline) or AC/DC 10-24V 3W (max)
Battery Life Expectancy	12 month *

* Based on 3 activations (approx. 10sec each) per day

9. WARRANTY

1. This product is under a warranty for a normal usage for 18 months from the date of manufacturing. The date of manufacturing can be identified from a LOT number indicated on a label placed in a back of IVP-DU.

   LOT: YYWWZ (e.g. LOT 1350Z)

   YY indicates last two digits of the year manufactured (e.g. "13" = Year 2013)
   WW indicates Xth week of the year manufactured (e.g. "50" = 50th week)

2. The warranty may **not be applicable** when any of following circumstances is found.
   - Mechanical or electrical modification is made to the product and the good's appearance indicates an alterations or a significant damage.
   - The product is already been diagnosed by someone other than the manufacturer.
   - Product malfunction is resulting from an improper usage, an accident, natural disaster or any environmental event.
   - Please call our technical assistance before arranging a return.

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URL: http://www.optexamerica.com/

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URL: http://www.optex.net/br/es/sec/

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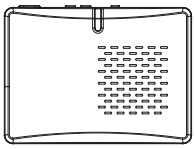
Wireless Video Intercom

IVP-GU(G) (Gateway Chime Unit) Installation Instructions



ATTENTION:
Thank you for purchasing the iVISION+ wireless video intercom.
Before installation and usage, please read this instruction manual thoroughly and keep this safe for future reference.

IVP-GU(G) features

"OPEN DOOR" Relay Output Function
AC/DC (10~24V) Adaptable
Chime On-Off Mode

* Relay Output function must meet other requirements dependent on the third party equipment. OPTEX will not be held responsible for any damage or injuries caused due to using this function.

1. IMPORTANT NOTICE

Operations under harsh environments such as out of warranted temperature, rapid temperature change, high humidity, constant moisturization may cause the unit to malfunction.

Electronic device such as TVs, Radios, PCs, Microwave ovens or any other device with an electric motor may cause the unit to malfunction.

Impact or shocks can cause severe damage to the unit. Please handle the unit with care and operate without exerting strong forces.

Transmission range of communication between units may decrease under the following conditions.
- Any unit is installed on a metal surface.
- Presence of reinforced concrete, steel doors or other metal construction materials between units.
- Places near strong radio sources such as broadcast stations or substations.

While installing/using a Gateway Chime Unit
- Do not install/use in damp, steamy or dusty environments.
- Do not hold the Gateway Chime Unit to your ear - your hearing could be damaged.
- Do not install in an unstable location or where subject to strong vibration.

2. CHOOSING LOCATION

If there is a pre-existing door bell inside the house, a Gateway Chime Unit (IVP-GU) may be capable of adapting the pre-existing power wires (AC/DC 10-24V 3 Wmax).

IVP-GU should be located in a place where the unit has a clear signal reception and transmission availability.

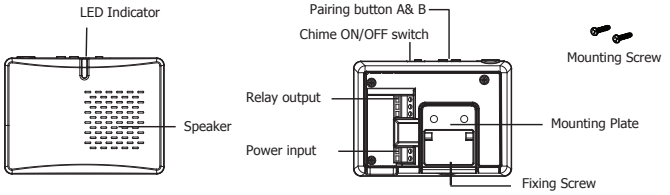
The performance of a IVP-GU is dependent on the transmission environment of radio signals from locations of connecting units. A communication range will be significantly reduced by more number and thickness of walls which the signal is required to pass.

For iVISION+ system, maximum communication range is around 300ft (100m) in an open air environment. Following materials may decrease the maximum communication range and may potentially cause loss of transmission signals.

- Metal barricades such as metal doors and shutters.
- Walls with aluminium foil insulation.
- Concrete or galvanized metal walls.

Gateway Chime Unit uses 2.4GHz radio frequency for iVISION+ system.

3. PARTS IDENTIFICATION



Gateway Chime Unit (Front)

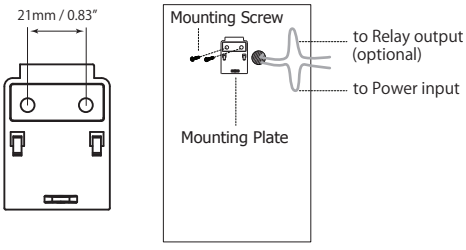
Gateway Chime Unit (Back)

4. POWERING THE UNIT

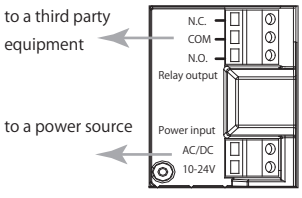
The Gateway Chime Unit needs to be powered from an AC/DC 10-24V 3W(max) power source. An open ended third party power adapter may be available from local electronics stores. Power input has no polarity. Please make sure to tighten terminal screws to avoid loose ends.
If applicable, configure all pairing setup and carry out feasibility study before mounting on a wall.

5. INSTALLATION

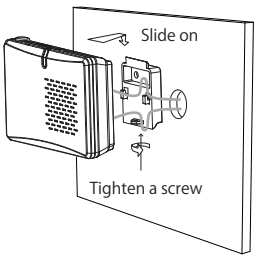
One iVISION+ system can host up to 2 units of Gateway Chime Unit (IVP-GU).
If "OPEN DOOR" Relay Output function is used, please carefully choose a location for each of IVP-GU to secure a physical access to the IVP-GU.
For the optimal radio performance, mount IVP-GUs high on a wall and in an open area avoiding a metal surface and surrounding.



(1) Fix a Mounting Plate on a feasible location



(2) Run a power cable to the location and connect to the Power input. If applicable, also run a relay connection from the Relay output to the third party equipment.



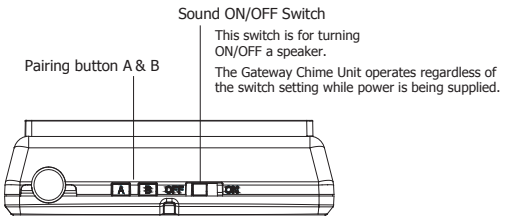
(3) Slide the IVP-GU onto the Mounting Plate and tighten the Fixing Screw at the bottom.

6. PAIRING WITH OTHER iVISION+ DEVICES

One iVISION+ system can host up to 2 units of Gateway Chime Unit (IVP-GU).

NOTE: One Handheld Monitor Unit (IVP-HU) must be configured to have a HOME ID*1 prior to paring up with other iVISION+ devices. For setting up a new HOME ID, please refer to the Installation Instructions of IVP-HU. A Handheld Monitor Unit bundled with Door Camera Unit (IVP-DU) already has a HOME ID set up and paired up to each other.

While the IVP-GU is in a factory default setting, the unit has not been assigned to a HOME ID. When powering the unit, green and red LED will flash with beep sound to indicate its paring mode. Please proceed to (2). (... continues onto the other side)

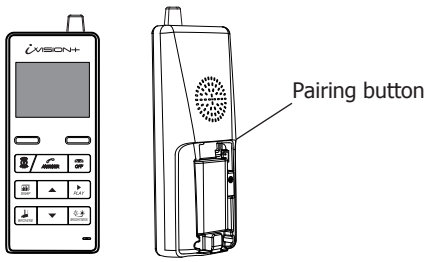

Sound ON/OFF Switch
This switch is for turning ON/OFF a speaker.
The Gateway Chime Unit operates regardless of the switch setting while power is being supplied.
Pairing button A & B
A
B
OFF
OK

*1 HOME ID is an unique identification number for your iVISION+ system.

(1) Entering Pairing mode of a Gateway Chime Unit (IVP-GU).
An IVP-GU is already set in a "Pairing mode" at the factory default setting. To change IVP-GU into the "Pairing mode", press down both A and B buttons and hold until LED will brink in green and red.

(2) Prepare Handheld Monitor Unit (IVP-HU) for assigning a HOME ID for IVP-GU. Press "Paring Button" on the back of an IVP-HU and choose "SCAN" by clicking "left function key" on the IVP-HU. The IVP-HU starts scanning for a new device.

(3) Confirming IVP-GU with a HOME ID.
When IVP-GU is assigned a new HOME ID, beeping stops and LED stops flashing to indicate the normal operation mode.



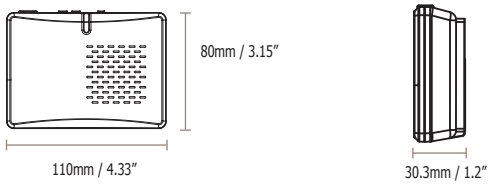
Handheld Monitor Unit (IVP-HU)

7. ADDITIONAL SETTING

To change a chime volume of IVP-GU
– Press button A to acknowledge current chime volume level. Press A button again to change volume level to the next. The volume changes within 4 levels and the lowest volume will follow the loudest. Leave the setting at the desirable volume level. To completely turn off the chime, set Sound ON/OFF Switch to OFF.

8. SPECIFICATION

8-1 Dimensions



8-2 Specification Table

MODEL NAME: OPTEX iVISION+ (IVP-GU) Gateway Chime Unit

Operating Temperature	0 to 40 degC (32 to 104 degF)
Operating Humidity	< 90% RH (no condensation)
Dust/Water Protection	N/A (Indoor Use Only)
Radiowave Frequency	2.4 GHz and 418MHz
Power	AC/DC 10-24V 3W(max)
Relay Output	1C 50VAC/24VDC 1A max

9. WARRANTY

1. This product is under a warranty for a normal usage for 18 months from the date of manufacturing. The date of manufacturing can be identified from a LOT number indicated on a label placed in a back of IVP-GU.

   LOT: YYWWZ (e.g. LOT 1350Z)

   YY indicates last two digits of the year manufactured (e.g. "13" = Year 2013)
   WW indicates Xth week of the year manufactured (e.g. "50" = 50th week)

2. The warranty may **not be applicable** when any of following circumstances is found.
   - Mechanical or electrical modification is made to the product and the good's appearance indicates an alterations or a significant damage.
   - The product is already been diagnosed by someone other than the manufacturer.
   - Product malfunction is resulting from an improper usage, an accident, natural disaster or any environmental event.
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